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“SVAROSKI”: A COMPUTERISED METHOD OF ASSESSMENT OF REHABILITATION OUTCOMES

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Introduction: The use of standardized tools for assessment and monitoring of a rehabilitation program is strongly recommended, though not so often accomplished in clinical practice.

Aims: To describe the development and feasibility of a computerised method of assessment of rehabilitation activities based on psychometrics.

Methods: The software “SVAROSKI” was implemented by means of a relational ER (Entity-Relationship) model with a user interface managed by MS-Access. The rehabilitation activities were: Physical therapy; Locomotion, Occupational Therapy and Reality-Orientation Therapy. Patients were administered at the beginning and at the end of admission the following tests: MMSE, MODA, Barthel Index, Tinetti.

The software enables processing of test data with those obtained from rating scales at each session.

Results: For each patient, two graphical reports are made available:

Punctual performance of each item divided by subject areas;

Overall pace of the three scales assessing rehabilitation (physical therapy was maintained for an evaluation board, partly qualitative, for the sake of the physiotherapist of the structure).

The software allows:

1) the rapid storage of the scores obtained from patients during the course of rehabilitation activities,

2) the real-time consultation of the development of therapeutic and rehabilitation,

3) the comparison of the iteration of several rehabilitation interventions on the patient.

Conclusions: SVAROSKY is a useful tool for analysis and monitoring of developments in the rehabilitation of the patient as a valid tool for the development of a synthesis report of the rehabilitation process.